TRANSLATION PATENT COOPERATION TREATY POT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or	agent's file veferer	1/10 I							
Applicant's or agent's file reference D3-A0310P			FOR FURTHER ACTION		See Form PCT/IPEA/416				
1			_	date (day/month/year)	Priority date (day/month/year)				
			20.01.20		22.01.2004				
International Patent Classification (IPC) or national classification and IPC C12N15/86, C12N5/10 // (C12N15/86, C12R 1:92), (C12N5/10, C12R1:19)									
Applicant DNAVEC RESEARCH INC.									
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2. This	2. This REPORT consists of a total of sheets. including this cover sheet.								
3. This	report is also acco	mpanied by ANI	NEXES, comprisin						
a. [(sent to the	applicant and to	the International 1	Bureau) a total of	sheets as follower				
	a. (sent to the applicant and to the International Bureau) a total of sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))									
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4. This	report contains ind	ications relating	to the following ite	ems:					
\boxtimes	Box No. I	Basis of the rep	port						
	Box No. II Priority								
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
	Box No. IV Lack of unity of invention								
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	Box No. VI Certain documents cited								
	Box No. VII Certain defects in the international application								
	Box No. VIII Certain observations on the international application								
Date of submiss	sion of the demand			Date of completion of th	is report				
				Sant of completion of the	is report				
Name and mailing address of the IPEA/JP				Authorized officer					
Facsimile No.				Telephone No					

International application No.
PCT/JP2005/000705

Bo	x No. I		Basis of the report						
1.	With	regard	d to the language, this report is based on the international a under this item.	pplication in the language in which it was file	d, unless oth er wise				
			report is based on translations from the original language into the following this the language of a translation furnished for the purposes of:						
			international search (Rule 12.3 and 23.1(b))						
		Ц	publication of the international application (Rule 12.4)						
			international preliminary examination (Rule 55.2 and/or 55	5.3)					
2.	recei	n regard iving O report):	ard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the a Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to rt):						
	\boxtimes	the int	nternational application as originally filed/furnished						
	Ш	the de	escription:						
		pages	s	as orig	inally filed/furnished				
		pages'	s* reco	eived by this Authority on					
		pages'	s* reco	eived by this Authority on					
		the cla	laims:						
		nos.		as orig	inally filed/furnished				
		nos.*							
		nos.*			,				
		nos.*	rece						
	П	the dra	rawings:						
		sheets	-		:II 61- 46 1				
		sheets'			inally filed/furnished				
		sheets							
			uence listing and/or any related table(s) – see Supplemental	Box Relating to Sequence Listing.					
3.	Ш	The an	mendments have resulted in the cancellation of:						
		님 '	the description, pages						
		<u></u>	the claims, nos.						
		'	the drawings, sheets/figs						
		╚,	the sequence listing (specify):						
		، لــا	any table(s) related to sequence listing (specify):						
4.		This re	report has been established as if (some of) the amendments have been considered to go beyond the disclosure as filed, as	annexed to this report and listed below had indicated in the Supplemental Box (Rule 70.	not been made, since 2(c)).				
		∐ ։	the description, pages						
		<u> </u>	the claims, nos.						
		Ш п	the drawings, sheets/figs						
	İ		the sequence listing (specify):						
	l	a	any table(s) related to sequence listing (specify):						
*	If iten	n 4 app	olies, some or all of those sheets may be marked "supersede						

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 2. Citations and explanations (Rule 70.7)

Box No. V

- Document 1: J. Virol., Vol. 77, No. 11 (2003), pages 6419 to 6429
- Document 2: The EMBO J., Vol. 21, No. 19 (2002), pages 5141 to 5150
- Document 3: J. Virol., Vol. 76, No. 18, (2002), pages 9284 to 9297
- 1. The invention set forth in 1, 8 and 9 lacks novelty and does not involve an inventive step in the light of document 1 cited in the international search report.

Document 1 sets forth a method of producing the Sendai virus vector which is a negative strand RNA virus vector, wherein (i) nucleic acid lacking the M protein gene which is a type of envelope protein of negative strand RNA virus, and (ii) the expression of said nucleic acid are induced by cytomegalovirus enhancer and chicken β -actin promoter, and said virus vector.

Therefore the invention set forth in claims 1, 8 and 9 is understood to be the same as the invention set forth in document 1.

2. The invention set forth in claims 3, 5 to 7, 16 to 19

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

and 24 to 28 does not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

Document 2 sets forth a method of producing a Sendai virus vector, which is a negative strand RNA virus vector, wherein mammalian animal cell strains which constantly express T7RNA polymerase are used to induce negative strand RNA virus genome RNA and the expression of said RNA under the control of a promoter, and mammalian animal cells which maintain said virus vector.

The invention set forth in documents 1 and 2 relates to Sendai virus vectors. That being the case, it would be easy for a person skilled in the art to conceive of applying the cytomegalovirus enhancer and chicken β -actin promoter set forth in document 1 as the functional nucleic acid (promoter, etc.) which controls the expression of RNA, in the invention set forth in document 2.

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Supplemental Box Relating to Sequence Listing						
Continuation of Box No. I, item 2:						
With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this report was established on the basis of:						
a. type of material a sequence listing table(s) related to the sequence listing						
b. format of material in written format in computer readable form						
c. time of filing/furnishing contained in the international application as filed						
filed together with the international application in computer readable form						
furnished subsequently to this Authority for the purposes of search and/or examination						
2. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.						
3. Additional comments:						
·						
* If item 4 in Box No. I applies, the listing and/or table(s) related thereto, which form part of the basis of the report, may be marked "superseded."						